



North Carolina Department of Environment and Natural Resources

Dexter Matthews, Director

Division of Waste Management

Beverly Eaves Perdue, Governor
Dee Freeman, Secretary

October 11, 2010

Dave Lambert
Iredell County Solid Waste Director
354 Twin Oaks Road
Statesville, NC 28625

Re: Limited Soil and Surface Water Assessment Report
Iredell County Landfill, Permit #49-03

Dear Mr. Lambert,

The Solid Waste Section (Section) has completed a review of the *Limited Soil and Surface Water Assessment Report* submitted on September 28, 2010 on behalf of Iredell County by Municipal Engineering Services Company, P.A. (MESCO). The assessment was conducted in accordance with the Sample and Analysis Plan approved by the Section on August 27, 2010.

MESCO collected six soil samples in the vicinity of the leachate breakouts and a background sample with a stainless steel hand auger at one foot intervals from borings approximately three feet below ground surface. The soil samples were field screened using a flame ionization detector and/or photo-ionization detector and the samples yielding the highest screening results were submitted for laboratory analysis. Surface water samples were also collected from the sediment basin and a stream located south of the leachate outbreak. Soil samples were analyzed for Appendix I volatile organic compounds (VOCs) and metals, nitrate-nitrite, phosphorous, sulfate, and pH. Surface water samples were analyzed for Appendix I VOCs and metals, nitrate-nitrite, phosphorous, sulfate, pH, BOD, and COD.

Laboratory analytical data indicated concentrations of Appendix I metals antimony, arsenic, cobalt, and vanadium exceeding the IHSB Remediation Goals in several soil samples. Copper, lead, and zinc were reported at concentrations exceeding the NCAC 2B Standards in the surface water sample collected from the sediment basin. There were no contaminant concentrations reported above the NCAC 2B Standards in the surface water sample collected from the stream. VOCs were not detected in the soil or surface water samples. Based on the laboratory analytical data, the Section has determined that the assessment conducted in the area where the leachate release occurred has not revealed any contamination at this time. Additional assessment may be necessary depending on future groundwater analytical data.

Please contact me at (919) 508-8516 or by e-mail at ervin.lane@ncdenr.gov if you have any questions or concerns regarding this letter. Thank you in advance for your anticipated cooperation with this matter.

Sincerely,

Ervin Lane
Compliance Hydrogeologist
Solid Waste Section

Cc: Mark Brown, P.G., MESCO
Mark Poindexter, Field Operations Branch Head
Deb Aja, Western District Supervisor
Charles Gerstell, Environmental Senior Specialist